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APPLICATION NO	. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/416,757		10/12/1999	LILA MADOUR	040010-440	6600
27045	7590	11/17/2003		EXAMINER	
ERICSSO	N INC.		WAXMAN, ANDREW		
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M/S EVW	2-C-2			ART UNIT	PAPER NUMBER
PLANO, 1	TX 75024		2667	).	
				DATE MAILED: 11/17/2002	ι

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
· (		09/416,757	MADOUR ET AL.				
Office Action Sur	nmary	Examiner	Art Unit				
		Andrew M Waxman	2667				
The MAILING DATE of the Period for Reply	is communication app	ears on the cover sheet with the c	orrespondence address				
THE MAILING DATE OF THIS  - Extensions of time may be available unde after SIX (6) MONTHS from the mailing do  - If the period for reply specified above is le  - If NO period for reply is specified above, the  - Failure to reply within the set or extended	COMMUNICATION.  r the provisions of 37 CFR 1.13 ate of this communication.  ss than thirty (30) days, a reply he maximum statutory period w period for reply will, by statute, three months after the mailing	IS SET TO EXPIRE 3 MONTH( 6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI date of this communication, even if timely filed	nety filed s will be considered timety. the mailing date of this communication. D (35 U.S.C. & 133).				
1) Responsive to communic	ation(s) filed on 06 No	ovember 2003.					
2a)⊠ This action is FINAL.	2b)☐ This a	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4a) Of the above claim(s)  5) ☐ Claim(s) is/are allo  6) ☒ Claim(s) <u>1-4 and 8-15</u> is/are obj							
Application Papers		·					
Applicant may not request the Replacement drawing sheet	is/are: a) acce nat any objection to the c (s) including the correcti objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objection. Note the attached Office	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
12) Acknowledgment is made a) All b) Some * c) Certified copies of 2. Certified copies of	e of a claim for foreign None of: the priority documents the priority documents	have been received. have been received in Application	on No				
application from the  * See the attached detailed of  13) Acknowledgment is made of since a specific reference with 37 CFR 1.78.  a) The translation of the  14) Acknowledgment is made of	e International Bureau Office action for a list of of a claim for domestic vas included in the firs of foreign language pro- of a claim for domestic	of the certified copies not receive priority under 35 U.S.C. § 119(extraprise to sentence of the specification or visional application has been rec	ed. e) (to a provisional application) in an Application Data Sheet. eived. and/or 121 since a specific				
Attachment(s)		_					
Notice of References Cited (PTO-892     Notice of Draftsperson's Patent Draw     Information Disclosure Statement(s) (	ing Review (PTO-948)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 8, 9, 11, and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by 1. over Turunen (US Patent No. 6,477,644).

Regarding claim 1, Turunen discloses a method including receiving packets over a first connection in a first network (see col. 2 lines 18-22), requesting a second connection with a second network while moving towards the second network (see col. 2 lines 23-26), and acquiring an address of a second gateway associated with the second network (see col. 2 lines 26-27). Turunen also discloses establishing a tunnel between the first (Home Agent) and second (Foreign Agent) gateways and routing packets from the first gateway to the second gateway and then to the mobile device (see col. 2 lines 38-47 and 50-52). By routing from the first gateway (HA) in the first network (Home Network) over the Internet to a second gateway (FA) in a second network (Foreign network), thereby traversing one or more routers that are incapable of routing to the destination node and establishing a tunnel. See also FIG. 1.

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Regarding claims 2 and 8, Turunen further disclose the second gateway (foreign agent) initiating, transmitting the second gateways address (see col. 2 lines 26-27), the request for the establishment of the tunnel.

Regarding claim 3, Turunen further discloses the first gateway (HA) initiating, forwarding packets to the second gateway in a second network (see col. 2 lines 50-52), the request for the establishment of the tunnel.

Regarding claim 4, Turunen further discloses the mobile host initiating, transmitting the second gateways address (see col. 2 lines 27-29), the request for the establishment of the tunnel.

Regarding claim 9, Turunen further discloses the second gateway retrieving the address of the first gateway from centralized database. This is inherent to Turunen because the first gateway (HA), as disclosed by Turunen, contains a database storing identities of mobile hosts within its network thereby classifying it as a centralized database. Furthermore, the identity (network address) would be provided by the first gateway to the second gateway in the source address portion of the header, which is essential to packet communications.

Regarding claim 11, it is inherent to Turunen that the identity (network address) would be provided by the first gateway to the second gateway in the source address portion of the header, which is essential to packet communications.

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Regarding claim 13, Turunen further discloses the mobile device providing the first data network with the identity of the second gateway. See col. 2 lines 27-30.

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### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 10, 12, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Turunen.

Regarding claim 10, Turunen discloses all of the limitations as recited above with respect to claim 1,

Turunen does not expressly disclose the first gateway is a Gateway General Packet Radio Services Serving Node.

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At the time the invention was made it would have been obvious to one of ordinary skill in the art to include a Gateway General Packet Radio Services Serving Node as the first gateway in the invention as disclosed by Turunen.

One of ordinary skill in the art would have been motivated to do this in order to make the invention, as disclosed by Turunen, conform to a widely used mobile networking standard, thereby making the invention more profitable.

Regarding claim 12, Turunen discloses all of the limitations as recited above with respect to claim 3.

Turunen does not expressly disclose the first gateway buffering data intended for the mobile device until the tunnel has been established with the second gateway.

At the time the invention was made it would have been obvious to one of ordinary skill in the art to include buffering the data intended for the mobile device until the tunnel has been established with the second gateway into the invention as disclosed by Turunen.

One of ordinary skill in the art would have been motivated to do this to prevent unnecessary loss of packet data, thereby providing for a more reliable, and efficient communication system.

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Regarding claim 15, Turunen discloses all of the limitations as recited above with respect

to claim 1.

Turunen does not disclose the communications network using a MobileIP Protocol.

At the time the invention was made it would have been obvious to one of ordinary skill in the art to make use of the MobileIP networking protocol in the invention as disclosed by Turunen.

One of ordinary skill in the art would have been motivated to do this in order to make the invention, as disclosed by Turunen, conform to a widely used mobile networking protocol standard, thereby making the invention more profitable.

## Claim Rejections - 35 USC § 103

3. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Turunen in view of Caceres et al. ("Fast and Scalabe Wireless Handoffs in Support of Mobile Internet Audio"), hereinafter referred to as Caceres.

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Regarding claim 14, Turunen discloses all of the limitations as recited above with respect

to claim 4.

Turunen does not expressly disclose the mobile device providing the second network

with the network identity of the first gateway.

Caceres discloses the mobile host sending a greet message when entering a new network,

which includes the network address of the MH default gateway. See page 354, 2<sup>nd</sup> column, pgh.

3-4.

At the time the invention was made it would have been obvious to one of ordinary skill in

the art to send a greet message, when entering a new network, which includes the network

address of the Mobile Host's default gateway, as disclosed by Caceres, in the invention as

disclosed by Turunen.

One of ordinary skill in the art would have been motivated to do this in order to provide

for a more efficient handoff between gateways within networks. See page 354 1st column pgh. 5.

Response to Arguments

Applicant's arguments filed 3 November 2003 have been fully considered but they are not

persuasive.

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Applicant contends that the prior art of record does not teach or fairly suggest "receiving packets, associated with a first session over a first connection in a first data communication network. Wherein said first connection is handled by a first gateway."

However, the Examiner contends that the prior art of record does indeed disclose this limitation. The prior art (Turunen) does teach that the functionality of the home agent is "off" while the mobile host is within its home area, however, Turunen also discloses the path of information (FIG. 1) traveling through the Home Agent to the destination, or in other words serving to forward the information. The Examiner contends that this forwarding constitutes a "handling" of the first connection, because without the Home Agents forwarding capability the information could not be transmitted or received by the mobile host.

Applicant also contends that the prior art of record does not teach or fairly suggest "establishing a tunnel between the first gateway associated with the first data communication network and said second gateway before routing packets over said established tunnel."

However, the Examiner contends that the prior art of record (Turunen) does indeed disclose the above limitation. Turunen does teach of using a care-of-IP-address, and that in itself is the establishment of the tunnel before the transmission of information from gateway one (HA) to Gateway two (FA). A tunnel is merely the packaging of a payload into another packet in order to send the information over a network, such as the Internet, which uses a different protocol as the network in which the host or hosts reside. Therefore, the care-of-address indeed constitutes the establishment of a tunnel from the Home Area (6) through the Internet (5) to the Foreign Area (7).

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#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew M Waxman whose telephone number is (703) 305-8086. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (703) 305-4378. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

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Andrew M. Waxman

CHI PHAM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600 1//4(-3

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